

WHAT IS CLAIMED IS

1. A stacked assembly of a plurality of modules forming an electronic or electromechanical device, said modules being mounted via assembly orifices on a plurality of mounting pins and assembled by compression between first and second planes, said plurality of modules including at least a first element whose thickness is
5 not guaranteed with great precision,

wherein said assembly includes a plurality of tube-shaped intermediate elements, called stepped tubes, mounted respectively on said mounting pins, each stepped tube being inserted in an assembly orifice of said first element, each stepped tube having:

10 - first and second reference surfaces separated by a determined distance greater than the thickness of said first element and against which the assembly is supported, and

15 - a zone, between said first and second reference surfaces, allowing said first element to be kept in abutment in the assembly, the length of said zone, in the direction of said mounting pins, being such that it allows variations in the thickness of said first element to be absorbed.

2. An assembly according to claim 1, wherein said zone penetrates said first element so as to plastically deform said first element and has a portion of slightly greater diameter than the diameter of the assembly orifice in which it is inserted.

20 3. An assembly according to claim 2, wherein said portion is of substantially conical shape.

4. An assembly according to claims 1 to 3, wherein said modules are assembled by plastically deforming the ends of said mounting pins.

25 5. A timepiece including a case and a stacked assembly of a plurality of modules forming a movement of the timepiece, said modules being mounted in said case via assembly orifices on a plurality of mounting pins and assembled by compression between first and second planes, said plurality of modules including at least a first element whose thickness is not guaranteed with great precision,

30 wherein said assembly includes a plurality of tube-shaped intermediate elements, called stepped tubes, mounted respectively on said mounting pins, each stepped tube being inserted in an assembly orifice of said first element, each stepped tube having:

35 - first and second reference surfaces separated by a determined distance greater than the thickness of said first element and against which the assembly is supported, and

- a zone, between said first and second reference surfaces, allowing said first element to be kept in abutment in the assembly, the length of said zone, in the direction of said mounting pins, being such that it allows variations in the thickness of said first element to be absorbed.

5 6. A timepiece according to claim 5, wherein said zone penetrates said first element so as to plastically deform said first element and has a portion of slightly greater diameter than the diameter of the assembly orifice in which it is inserted.

7. A timepiece according to claim 6, wherein said portion is of substantially conical shape.

10 8. A timepiece according to claim 5, wherein said modules are assembled by plastically deforming the ends of said mounting pins.

15 9. A timepiece according to claim 5, wherein said timepiece is an electromechanical timepiece and wherein the distance between said first and second reference surfaces is determined so as to assure a clearance allowing wheels of the timepiece movement to rotate.

10. A timepiece according to claim 5, wherein said mounting pins are in a single piece with a back cover of said case.

20 11. A timepiece according to claim 10, wherein said timepiece is an electromechanical timepiece and wherein said assembly includes a successive stack, on said back cover, of a lower plate, an electronic module including in particular a printed circuit board and forming said first element of non-guaranteed thickness, and a motor module including in particular at least a motor driving analogue display members.

25 12. A timepiece according to claim 11, wherein a coil of said motor is further assembled by means of said mounting pins between said printed circuit board and a corresponding stator of said motor, said coil being secured to said printed circuit board of the electronic module by means of said stepped tubes.

13. A timepiece according to claim 5, wherein said mounting pins are made of a plastic material.

30 14. A timepiece according to claim 5, wherein said stepped tubes are made of a material having low magnetic permeability, such as brass.